

What is claimed is:

1. A sheet light emitting apparatus, comprising:
a light guiding plate of a translucent material and including light receiving and light emitting surfaces;
a light source disposed to face said light receiving surface; and
a prism structure provided on said light receiving surface,
said prism structure including plural kinds of prisms having different apex angles.
2. The sheet light emitting apparatus according to claim 1, wherein said plural kinds of prisms are disposed alternately and adjacently.
3. The sheet light emitting apparatus according to claim 1, further comprising a prism sheet disposed to face said light emitting surface.
4. The sheet light emitting apparatus according to claim 1, wherein said light guiding plate has a surface opposing to the light emitting surface, and further comprising a reflective sheet disposed to face the surface of the light guiding plate.
5. The sheet light emitting apparatus according to claim 1, wherein a size and a pitch of arrangement of at least one kind of prism of the plural kinds of prisms provided on the light receiving surface of the light guiding plate are selected so that a space between translucent lights of the prisms is more than a predetermined identification value.
6. A sheet light emitting apparatus, comprising:
a light guiding plate of a translucent material and including light

receiving and light emitting surfaces;

a light source disposed to face said light receiving surface; and

a prism structure provided on said light receiving surface,

when an apex angle of a prism in said prism structure is α , a pitch of the prism is P, a height of the prism is h, a substantial maximum emitting angle of light emitted from the light source is θ_0 and a refractive index of the light guiding plate is n, said prism structure having a relation,

$$\{P-2h \times \tan(\alpha/2)\} \times \cos\{(\alpha/2) - \theta_2\} > 0.087\text{mm}$$

$$(\text{but, } \theta_2 = \sin^{-1}\{[(\alpha/2) - (90^\circ - \theta_2)]/n\})$$

7. The sheet light emitting apparatus according to claim 1, wherein at least one kind of prism in the plural kinds of prisms having different apex angles having a relation,

$$\{P-2h \times \tan(\alpha/2)\} \times \cos\{(\alpha/2) - \theta_2\} > 0.087\text{mm}$$

$$(\text{but, } \theta_2 = \sin^{-1}\{[(\alpha/2) - (90^\circ - \theta_2)]/n\})$$

when an apex angle of the prism is α , a pitch of the prism is P, a height of the prism is h, a substantial maximum emitting angle of light emitted from the light source is θ_0 and a refractive index of the light guiding plate is n.

8. The sheet light emitting apparatus according to claim 1, wherein a difference between bright and dark portions of illumination light is generally moderated, by the bright and dark portions of light generated in each of the plural kinds of prisms due to operation thereof being complemented with respect to each other.

9. The sheet light emitting apparatus according to claim 1, wherein a difference between bright and dark portions of illumination light is generally

moderated, by the bright and dark portions of light generated in each of the plural kinds of prisms due to operation thereof being complemented with respect to each other.